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(71) Applicant (*for all designated States except US*): NUVELO, INC. [US/US]; 675 Almanor Avenue, Sunnyvale, CA 94085 (US).

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(72) Inventor; and  
(75) Inventor/Applicant (*for US only*): EMTAGE, Peter, C., R. [CA/US]; 879 S. Knickerbocker Drive, Sunnyvale, CA 94087 (US).

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(74) Agent: QUERTERMOUS, Elena; NUVELO, Inc., 675 Almanor Avenue, Sunnyvale, CA 94085 (US).

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(54) Title: METHODS OF THERAPY AND DIAGNOSIS USING TARGETING OF CELLS THAT EXPRESS LAX

(57) Abstract: Certain cells are capable of expressing LAX RNA. Targeting using LAX polypeptides, nucleic acids encoding for LAX polypeptides and anti-LAX antibodies, peptides and small molecules provides a method of killing or inhibiting the growth of cells that express the LAX protein. Methods of therapy and diagnosis of disorders associated with LAX protein-expressing cells are described.

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**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US03/37907

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : A61K/39/38, 48/00; C07K 16/00  
US CL : 514/2, 44; 424/93.2, 184.1; 530/387.1

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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
**SEQUENCE DATABASES, MEDLINE, BIOSIS, EMBASE, CAPLUS**

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| P, X       | ZHU, M. ET AL, Molecular cloning of a novel gene encoding a membrane associated adaptor protein (LAX) in lymphocyte signaling. J Biol Chem. 29 November 2002, Vol. 277, No. 48, pages 46151-46158. See particularly the left column of page 46152. | 1-4, 7                |
| ---        |  | -----                 |
| P, Y       |  | 5, 6, 18-22           |
| Y          | BONALDO, M. ET AL, Normalization and subtraction: two approaches to facilitate gene discovery. Genom Res. 1996, Vol. 6, pages 791-806. The disclosed mRNA sequence CF136957 of the reference comprises instant SEQ ID No: 4.                       | 1-7, 18-21            |
| ---        |  | -----                 |
| A          |  | 8-17                  |

Further documents are listed in the continuation of Box C.

See patent family annex.

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| * Special categories of cited documents:  | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
Facsimile No. (703) 305-3230

Authorized officer

Q. Janice Li

Telephone No. (571) 272-1600

*J. Roberts for*